IBM PROJECT

Team Id: PNT2022TMID13304

Team Members

S. Manikandan- **951919CS052**

P. Manikandan– **951919CS051**

M. Deepak– **951919CS017**

M. Richard Kumar – **951920LCS04**

K. Dharnesh- **951919CS019**

OF

BACHELOR OF ENGINEERING

IN

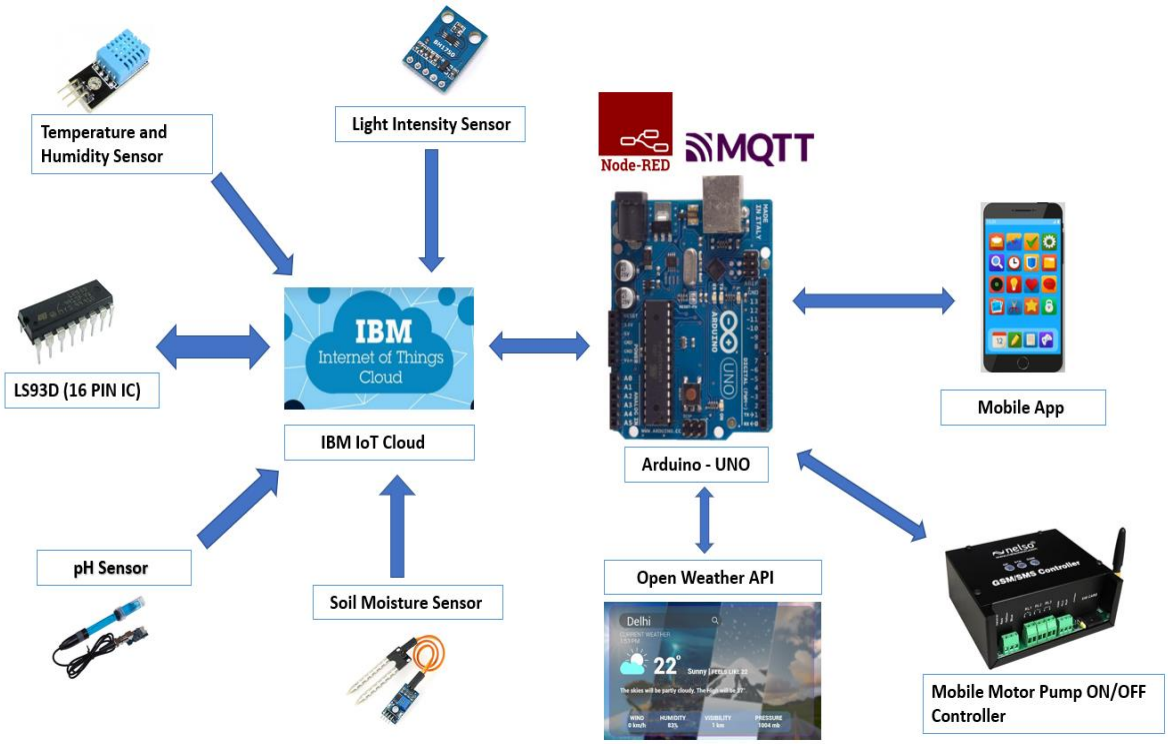
COMPUTER SCIENCE ENGINEERING

P.S.R. ENGINEERING COLLEGE

SIVAKASI 626 140

IoT Based Smart Crop Protection System for Agriculture

Solution Architecture:



Key points:

- The different soil parameters (temperature, humidity, light intensity, pH level) are sensed using different sensors and the obtained value is stored in IBM cloud.
- Arduino uno is used as a processing unit which processes the data obtained from sensors and weather data from weather API.
- Node red is used as a programming tool to wire the hardware, software and APIs. The MQTT protocol is followed for communication.
- All the collected data are provided to the user through a mobile application which was developed. Depending upon the sensor values, Mobile Motor Pump controller waters the crop.